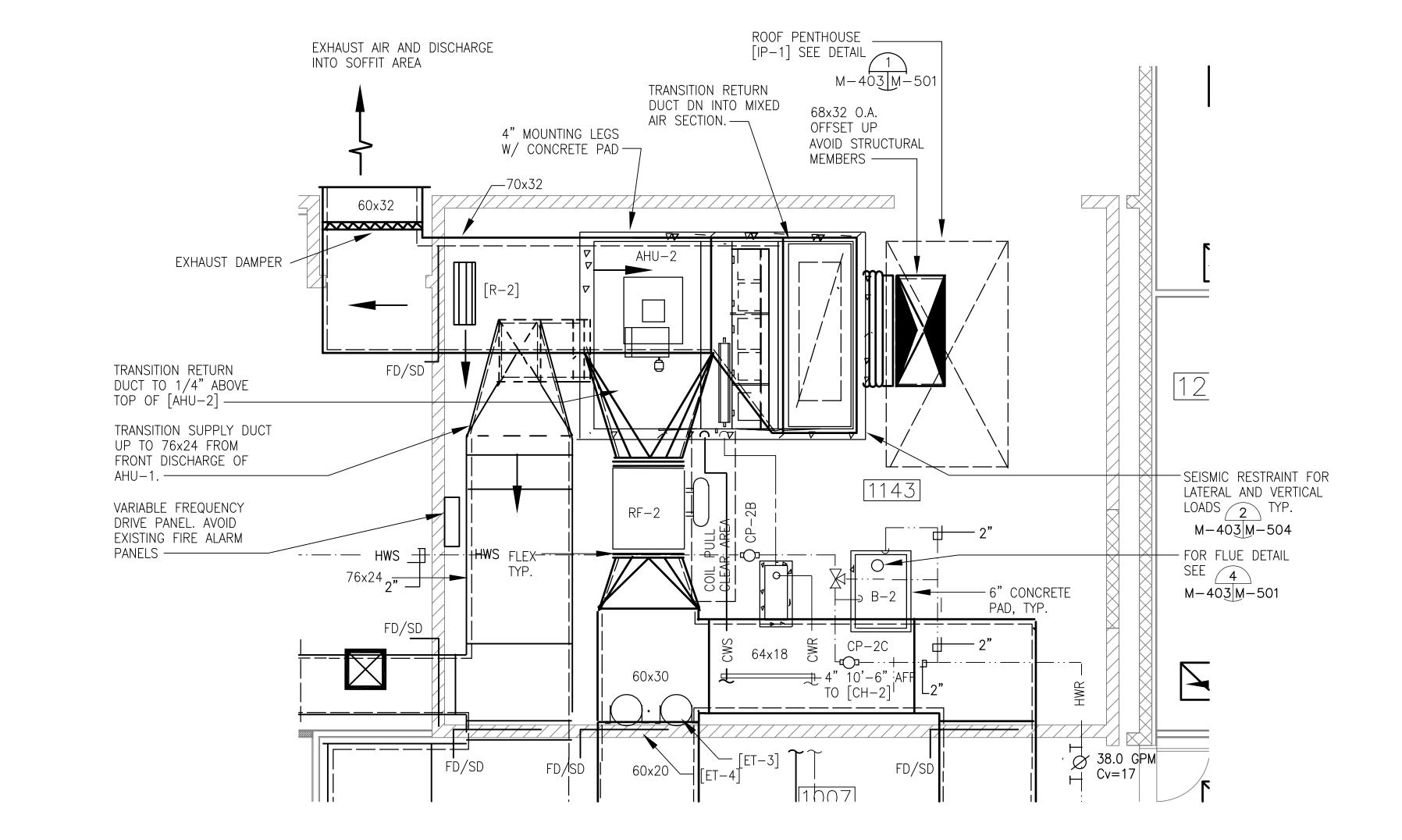


NOTES:

- PROVIDE A 6" HOUSE KEEPING PAD FOR THE AIRHANDLING UNIT. EXPANSION TANK, FLOOR MOUNTED PUMP REFRIGERATED AIR DRYER & BOILER.
- 2. COIL PULL FOR [AHU-2] AS INDICATED. TO REMAIN CLEAR.
- SEE 1 FOR TYPICAL PIPE SUPPORT DETAILS. M-403M-504
- ALL FLOOR MOUNTED EQUIPMENT SHALL BE ANCHORED. FOR DETAIL, SEE 2 IN LIEU OF ANCHORING TO THE FLOOR, M-403 M-504
- EXPANSION TANKS MAY BE SECURED TO AN ADJACENT WALL WITH 2-1"x16 GAUGE STRAPS AND WALL ANCHOR BOLTS
- ALL PIPING & IN-LINE PUMPS TO BE MOUNTED 8' AFF UNLESS OTHERWISE INDICATED.
- 7. FOR CHILLER PIPING SCHEMATIC SEE $\sqrt{4}$ M-403M-503
- FOR BOILER PIPING SCHEMATIC SEE 2 M-403 M-502
- ALL PIPING SHALL NOT PASS OVER THE MAIN SWITCH BOARD, DISTRIBUTION PANEL BOARDS, TELEPHONE/DATA ELECTRONIC RACK-MOUNTED EQUIPMENT OR BACKBOARD MOUNTED ELECTRONIC EQUIPMENT. FOR TELEPHONE /DATA CONTRACTOR SHALL COORDINATE ROUTING OF ALL PIPING W/ THE CONTRACTING OFFICER .
- FOR IN-LINE PUMP INSTALLATION SCHEMATIC, SEE $\sqrt{1}$ M-403M-503
- 11. SECTIONS OF [AHU-2] ARE TO BE BROUGHT THROUGH THE NEW MECHANICAL ROOM DOOR AND ASSEMBLED.
- 12. FOR DETAIL OF FIRE/SMOKE DAMPER SEE DETAIL 5 M-403M-503
- 13. FOR FLOOR MOUNTED PUMP SEE 3 M-403 M-503
- TOP OF [RF-2] TO BE MOUNTED 1/4" BELOW BOTTOM OF TRUSS.
- PLATFORM FOR SUSPENDING MECHANICAL EQUIPMENT SEE DETAIL 1 M-403M-505
- 16. FOR CHILLED WATER COIL SEE DETAIL 3 M-403 M-502
- 17. [AHU-2] UNIT SHALL NOT BE MORE THAN 80 INCHES IN HEIGHT.



EXISTING BUILDING 282 ENLARGED MECHANICAL ROOM - ROOM 1143 1 SCALE: 1/4" = 1'-0M-103 M-403

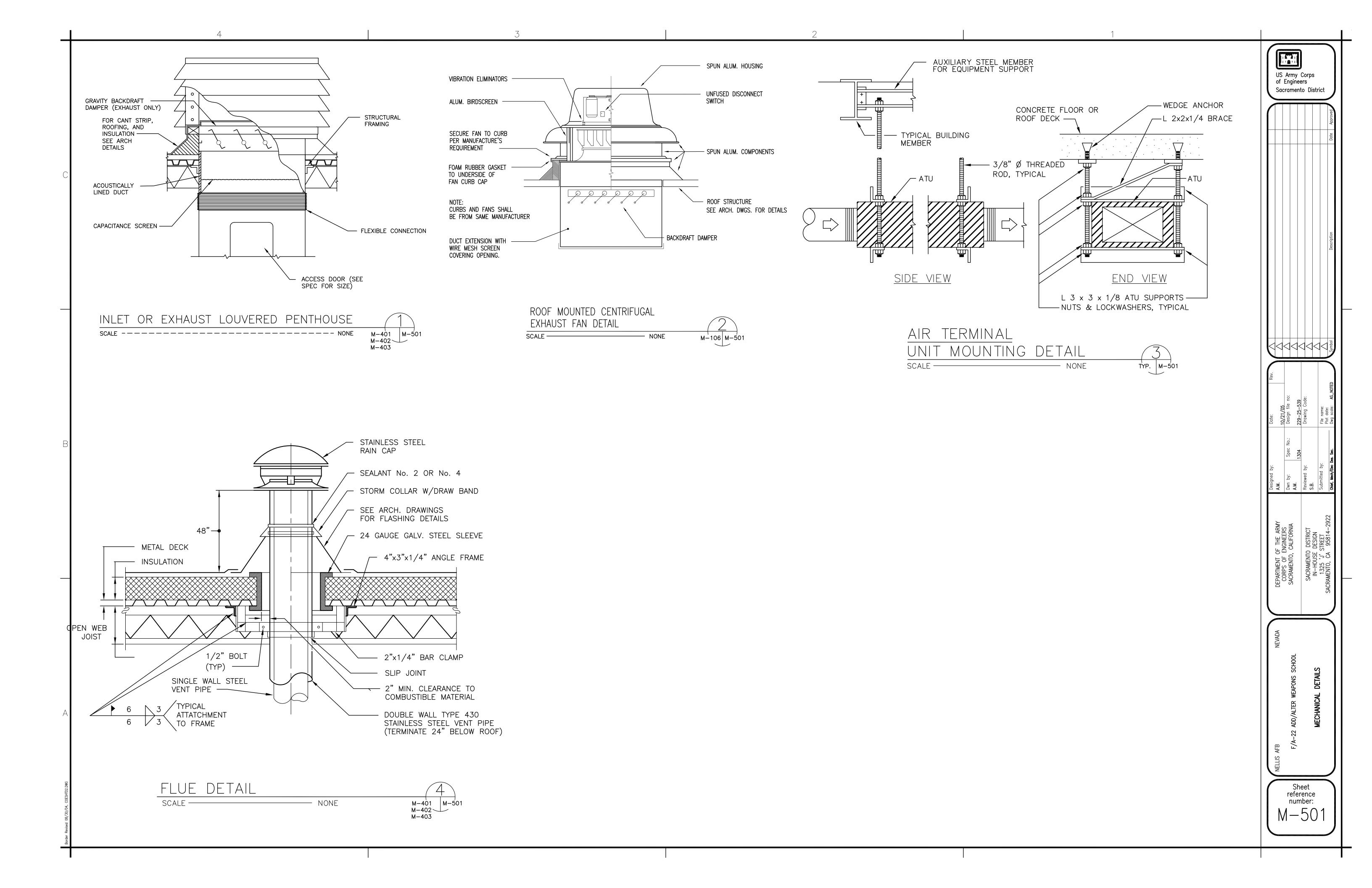
GRAPHIC SCALE

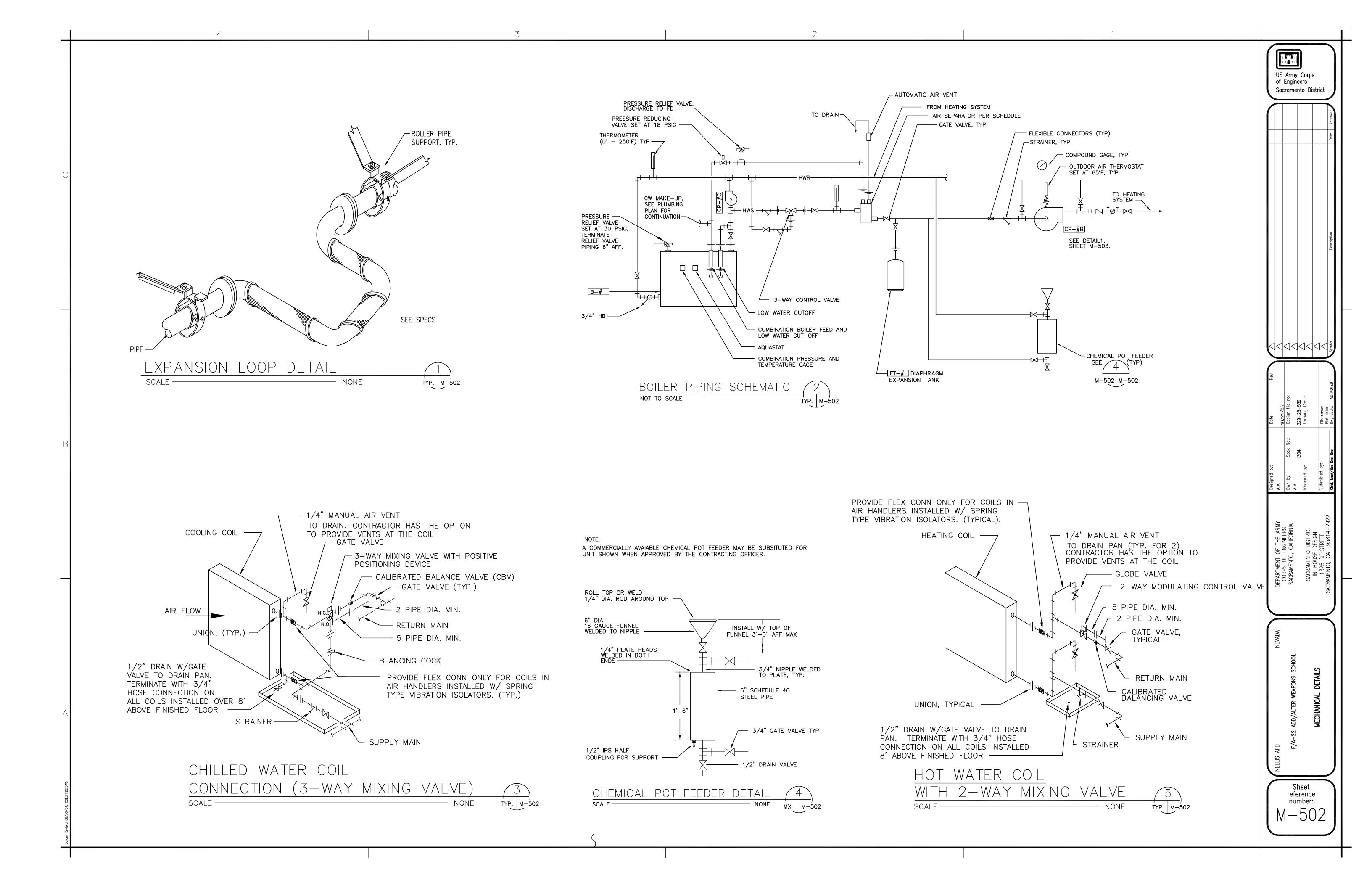
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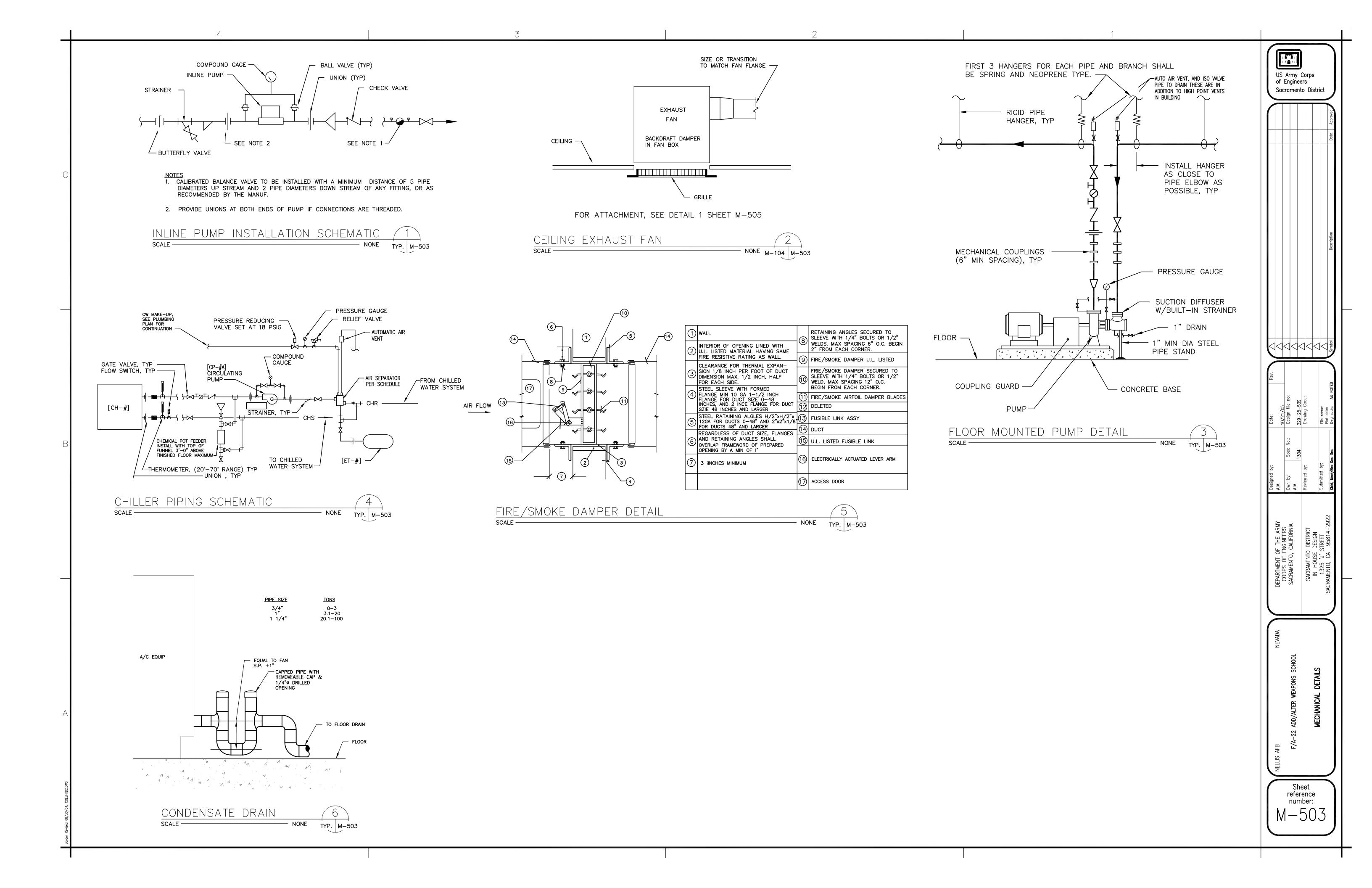
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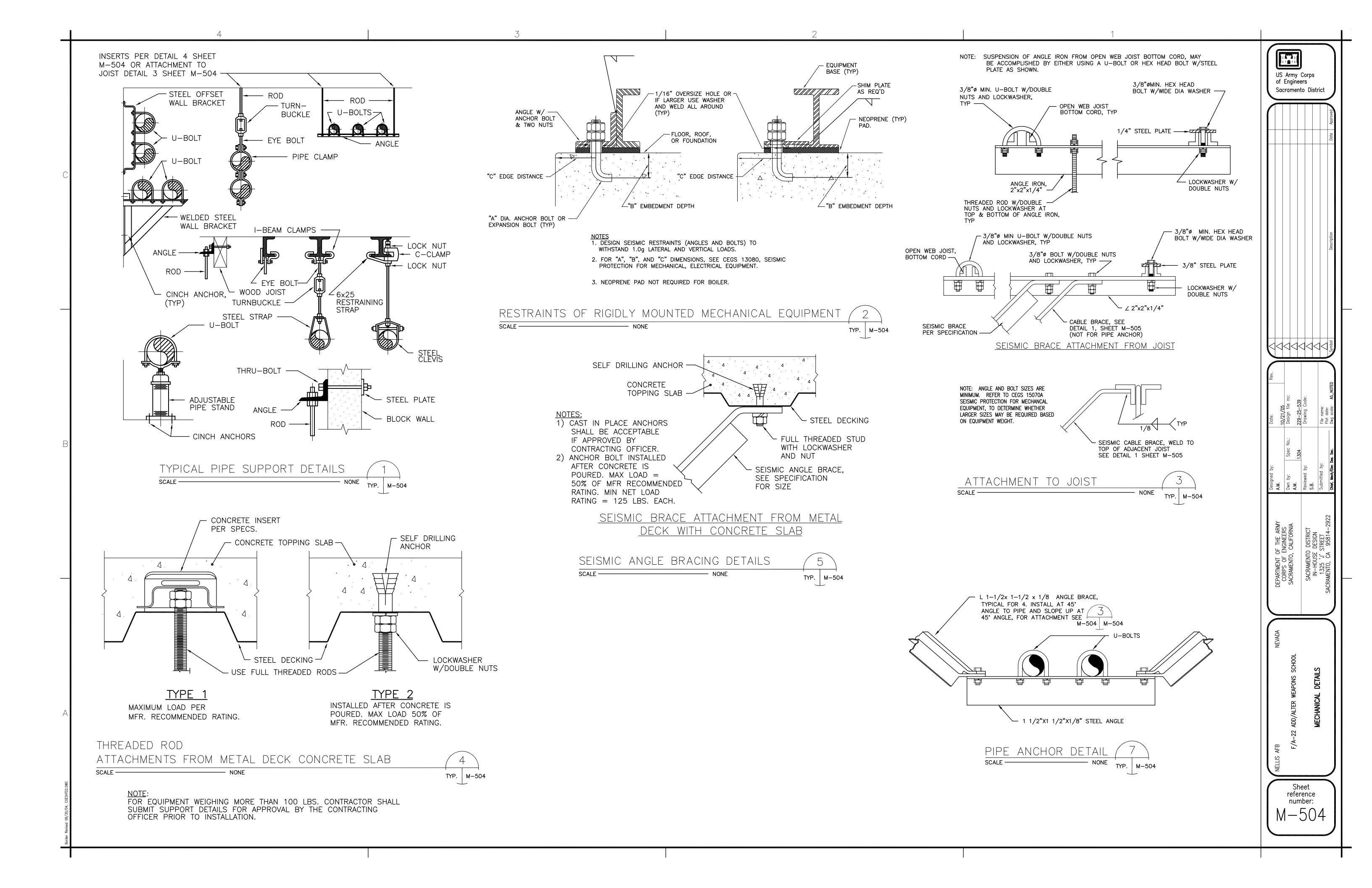
Sacramento District

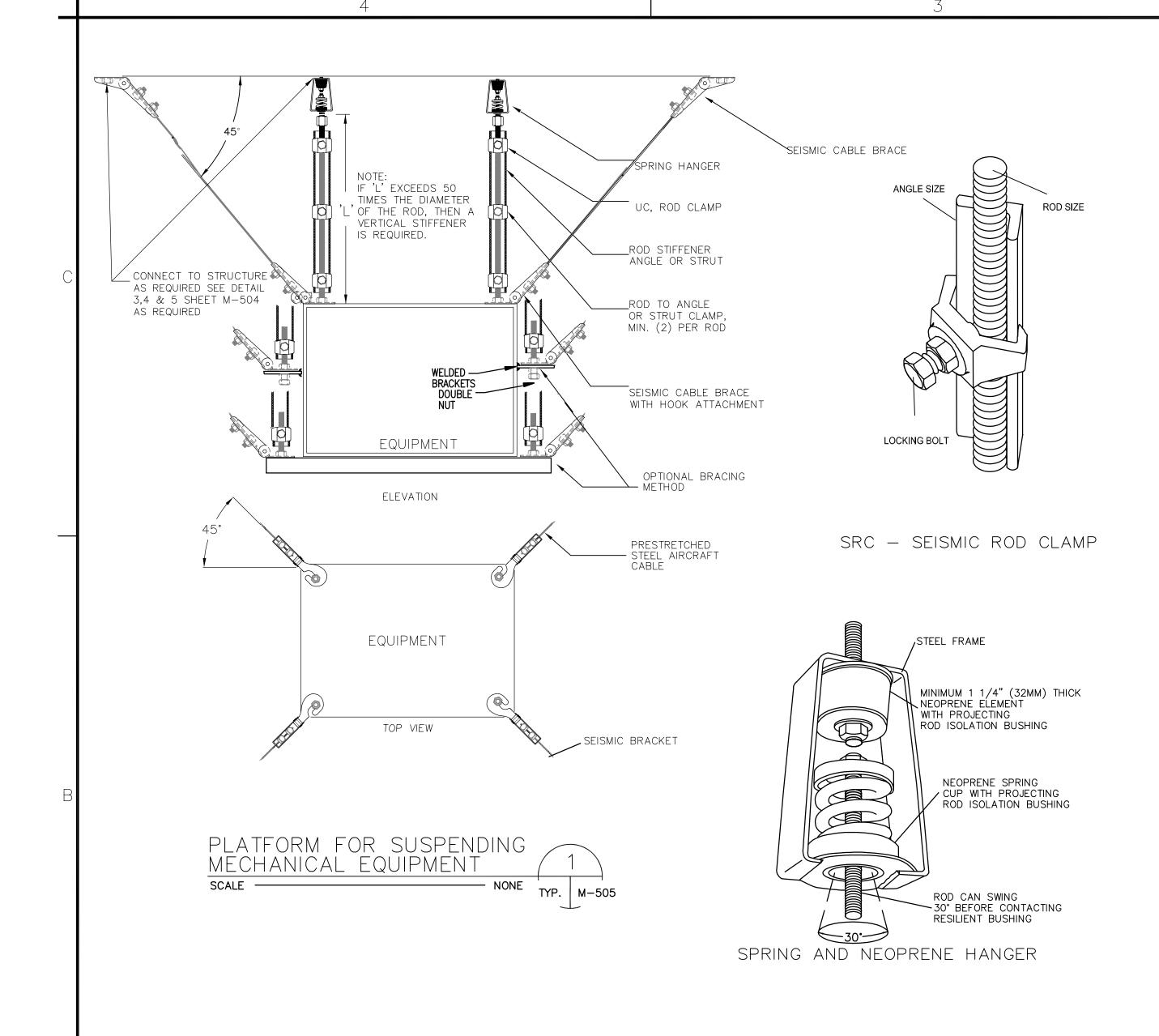
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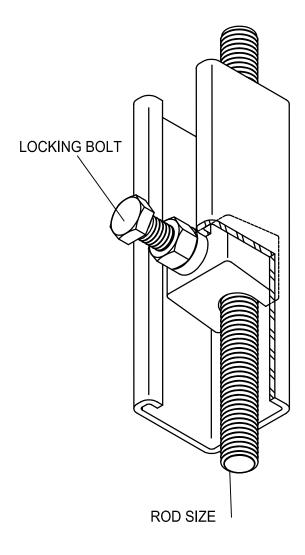




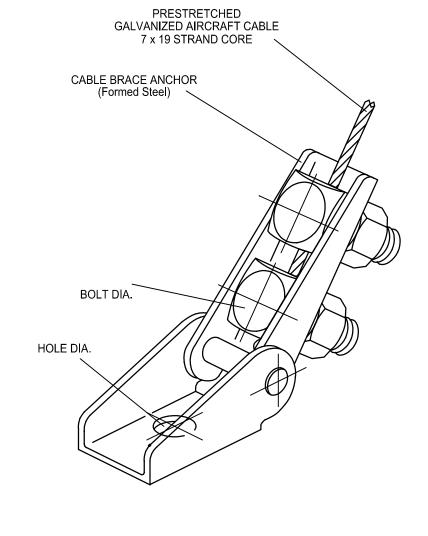




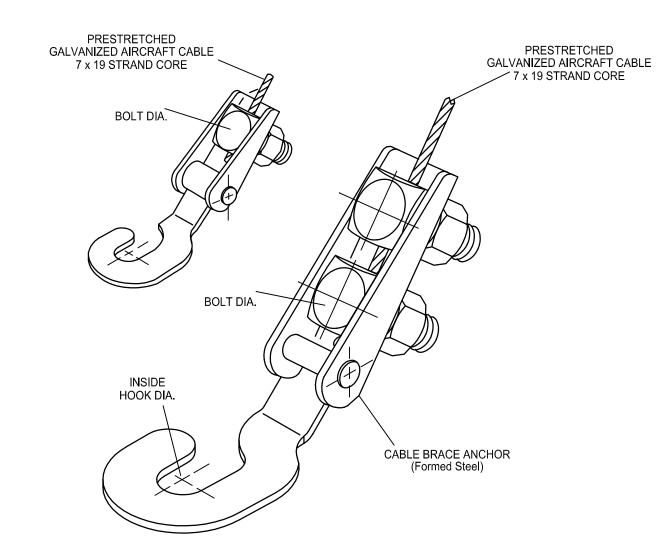








SCB — SEISMIC CABLE BRACE

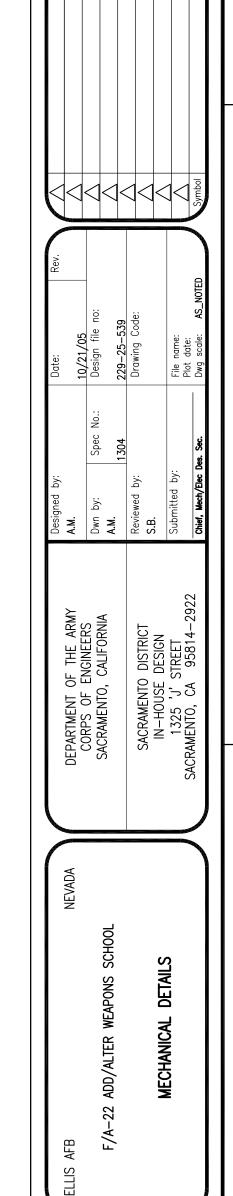


SCBH — SEISMIC CABLE BRACE WITH HOOK ATTACHMENT

Note:

Seismic sway braces shall consist of galvanized steel aircraft cables. Cables braces shall be designed to resist seismic tension loads with a minimum safety factor of 2. Brace end connections shall be steel assemblies that swivel to the final installation angle. Steel angles or struts, when required, shall be clamped to the threaded hanger rods at the seismic sway brace locations utilizing a minimum of two ductile iron clamps. Design incorporating brace assemblies, spring hangers, rod clamps, and cable brace assemblies, rod clamps shall be stamped by a licensed Civil or Structural Engineer.

Install seismic cable brace to that it is not tight. Vibration isolator will not work if seismic cable brace is tight.



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MECHANICAL EQUIPMENT SCHEDULES, LEGEND & NOTES

SYMBOL	1 D D D	DESCRIPTION		DESCRIPTION	SYMBOL		DESCRIPTION
STIVIDUL	ADDR	DESCRIPTION	SYMBOL ABBR	DESCRIPTION	STNDOL	ADDR	DESCRIPTION
		ARROW INDICATES DIRECTION OF FLOW		RETURN & EXHAUST AIR FLOW		EWT	ENTERING WATER TEMPERATURE
	ATU	AIR TERMINAL UNIT	-	SUPPLY AIR FLOW		PD	PRESSURE DROP
- \$\frac{1}{2}-		AUTOMATIC CONTROL VALVE 2-WAY		TEE DOWN		CFM	CUBIC FEET PER SECOND
-\$-		AUTOMATIC CONTROL VALVE 3-WAY	——————————————————————————————————————	TEE UP		HP	HORSE POWER
₽ -	AGV	ANGLE GATE VALVE		THERMOMETER IN WELL		TYP	TYPICAL
-1521-	ВС	BALANCING COCK	T	THERMOSTAT		EXT	EXTERNAL
-b-	BV	BALL VALVE		TURNING VANES		MD	MOTORIZED DAMPER (CONTROLS)
HWS		HEATING WATER SUPPLY	₹ VD VD	VOLUME DAMPER WITH MANUAL LOCKING QUADRANT		GAL	GALLONS
— — HWR ——		HEATING WATER RETURN	VFD	VARIABLE FREQUENCY DRIVE		S	SECOND
+	CkV	CHECK VALVE		VOLUME DAMPER		AF,FC,BI	AIRFOIL, FORWARD—CURVE, BACKWARD—INCLINED
—— CHWS ——		CHILLED WATER SUPPLY	\$	RELIEF VALVE (R) OR SAFETY VALVE (S)		FT	FOOT
— — CHWR — —		CHILLED WATER RETURN	—— D ——	DRAIN PIPING		LBS	WEIGHT, POUNDS
—Ø—		COMBINATION SHUT-OFF AND CALIBRATED FLOW CONTROL VALVE	—₩ PRV	PRESSURE REDUCING VALVE		PRESS,PSI	PRESSURE, LBS PER SQUARE INCH
_ T ⊘ T _	CBV	CALIBRATED BALANCING VALVE WITH PRESSURE GAUGE CONNECTIONS		PIPE DOWN		WB	WET BULB TEMPERATURE
20/12		CROSS SECTION OF SUPPLY DUCT		PIPE UP		SEER	SEASONAL ENERGY EFFICIENCY RATING
		CROSS SECTION OF ROUND DUCT	PG PG	PRESSURE GAGE		W/	WITH
20/12		CROSS SECTION OF EXHAUST OR RETURN AIR DUCT	cw cw	COLD WATER		MFR	MANUFACTURER
\$\frac{1}{2} - \$\frac		CEILING DIFFUSER, RECTANGULAR OR SQUARE, 2-,3-, 4-WAY, CORNER BLOW, CFM, & NECK SIZE	HWS	HOT WATER SUPPLY		SPECS	SPECIFICATIONS
DL	DL	DOOR LOUVER	HWR	HOT WATER RETURN		(N)	NEW
→ UC	UC	UNDERCUT	Cv	VALVE COEFFICIENT		(E)	EXISTING
<u> </u>	AL	DUCT WITH ACOUSTIC LINING	DB	DRY BULB TEMPERATURE		SP	STATIC PRESSURE
The e		EXTRACTOR (AIR DEFLECTOR)	DIA	DIAMETER		FT/S	FOOT PER SECOND
FD FD		FIRE DAMPER	TEMP	TEMPERTURE		MIN, MAX	MINIMUM, MAXIMUM
	FLX	FLEXIBLE DUCT	DN	DOWN		NC	NORMALLY CLOSED
	FC	FLEXIBLE PIPE CONNECTION	EA	EXHAUST AIR		NO	NORMALLY OPEN, NUMBER
->>-	GV	GATE VALVE	RG, SR	RETURN AIR GRILL, SUPPLY REGISTER		OA	OUTSIDE AIR
	MD	MOTORIZED DAMPER	ER, RR	EXHAUST AIR REGISTER, RETRURN AIR REGISTER		ВНР	BRAKE HORSE POWER
[B-1]		INDICATES EQUIPMENT LISTED IN EQUIPMENT SCHEDULE	FD/SD	COMBINATION FIRE/SMOKE DAMPER		VP	VELOCITY PROBE (CONTROLS)
			СОР	COEFICIENT OF PERFORMANCE		VF	VARIABLE FREQUENCY

14. REFRIGERANT LIQUID AND SUCTION LINES SHALL BE SIZED PER MANUFACTURERS RECOMMENDATIONS.

GENERAL NOTES: APPLY TO ALL MECHANICAL SHEETS

1. NEW DUCTWORK FROM THE DISCHARGE OF [AHU-1,2,3&5] TO THE INLET OF TERMINAL UNITS SHALL BE CONSTRUCTED FOR A POSITIVE PRESSURE OF 2 INCHES WATER GAUGE, EXCEPT IN EACH MECH ROOM, PROVIDE CONSTRUCTION FOR 3-INCH POSITIVE PRESSURE. & FROM [AHU-4] CONSTRUCT FOR A POSITIVE PRESSURE OF 2 INCHES WATER GAUGE. RETURN DUCTWORK TO [AHU-1,2,3,4 & 5] SHALL BE CONSTRUCTED FOR A NEGATIVE PRESURE OF 2.0 INCHES OF WATER GAUGE THE REMAINDER OF THE DUCTWORK SHALL BE CONSTRUCTED

FOR A POSTIVE PRESSURE OR NEGATIVE PRESSURE OF 1.0 INCH WATER GAUGE AS APPLICABLE OR UNLESS STATED OTHERWISE.

- 2. PROVIDE A MINIMUM OF 3 FEET AND A MAXIMUM OF 10 FEET OF PREINSULATED FLEXIBLE DUCT AT CONNECTIONS TO SUPPLY DIFFUSERS. FLEXIBLE DUCT SHALL NOT BE PULLED TIGHT AROUND CORNERS & HAVE A SPUN NYLON (NOT POLYETHYENE) LINER.
- 3. THERMOSTATS SHALL BE SET FOR 76°F FOR COOLING, 70° FOR HEATING, UNLESS INDICATED OTHERWISE.
- 4. ALL DIFFUSERS SHALL BE 4-WAY, UNLESS INDICATED OTHEWISE WHEN RECTANGULAR DIFFUSERS ARE INDICATED, SELECT THROW TO MATCH ROOM GEOMETRY.
- 5. SEE "DUCT FITTING LEGEND" FOR DESCRIPTION OF DUCTWORK & FITTINGS.
- 6. CONTRACTOR IS RESPONSIBLE TO ENCLOSE, WITH LIKE MATERIAL, ANY FLOOR ROOF OR WALL OPENINGS REMAINING FROM PERMANENT REMOVAL OR RELOCATION OF ANY EXISTING PIPING OR DUCTWORK. METHOD OF ENCLOSURE SUBJECT TO APPROVAL BY CONTRACTING OFFICER.

7. ALL VENTS, DUCTS, AND SIMILAR OPENINGS IN EXCESS OF 96 SQUARE INCHES THAT ENTER OR PASS THROUGH A SCIF MUST BE PROTECTED WITH EITHER BARS, OR GRILLS, OR COMMERCIAL METAL DUCT SOUND BAFFLES THAT MEET APPROPRIATE SOUND ATTENUATION CLASS AS SPECIFIED IN ANNEX E PER DIRECTOR OF CENTRAL INTELLIGENCE DIRECTIVE NO. 6/9. WITHIN THE UNITED STATES, BARS OR GRILLS ARE NOT REQUIRED IF AN IDS IS USED. IF ONE DIMENSION OF THE DUCT MEASURES LESS THAN SIX INCHES, OR DUCT IS LESS THAN 96 SQUARE INCHES, BARS ARE NOT REQUIRED; HOWEVER, ALL DUCTS MUST BE TREATED TO PROVIDE SUFFICIENT SOUND ATTENUATION. IF BARS ARE USED, THEY MUST BE 1/2 INCH DIAMETER STEEL WELDED VERTICALLY AND HORIZONTALLY SIX (6) INCHES ON CENTER; IF GRILLS ARE USED, THEY MUST BE OF 9-GAUGE EXPANDED STEEL; IF COMMERICAL SOUND BAFFLES ARE USED, THE BAFFLES OR WAVE FORMS MUST BE METAL PERMANENTLY INSTALLED AND NO FARTHER APART THAN SIX (6) INCHES IN ONE DIMENSION. A DEVIATION OF 1/2 INCH IN VERTICAL AND/OR HORIZONTAL SPACING IS PERMISSIBLE. SEE SHEET A-130, A-131 FOR LOCATIONS.

- 8. ALLOW REQUIRED SPACE FOR CABLE TRAYS SEE TELECOMMUNICATION SHEETS.
- 9. CONTRACTOR TO ASSUME ONE FITTING OR OFFSET ON AVERAGE PER 15 FOOT OF DUCT RUN TO ACCOMODATE BUILDING CONDITIONS IN EXISTING BLDG. 282.
- 10. EXTEND BOILER STACK LOCATED ON THE ROOF PER NFPA & MANUFACTURES RECOMMEND.
- 11. FOR ALL FAN COIL UNIT PROVIDE CONDENSATE PUMP & PROVIDE 1/2" PIPE TO DAY LIGHT UNLESS A FLOOR DRAIN IS AVAILABLE.
- 12. FOR CONDENSATE DRAIN FOR AHU'S, SEE DETAIL 6 ON SHEET M-503.
- 13. SEE DETAILS 5 ON SHEET M-503 FOR TYPICAL FIRE/SMOKE DAMPER DETAILS.

45° ELBOW N/A 45° LATERAL 90° TEE W/ OVAL TO ROUND N/A TAP FOR ROUND DUCT 90° CONICAL N/A TEE FOR ROUND DUCT 90° TEE WITH 45° ENTRY FOR N/A RECTANGULAR DUCT CONNECTION BETWEEN $\rightarrow \sim$ N/A RIGID AND FLEXIBLE DUCT WYE (ANGLE SHALL BE 45° N/A UNLESS OTHER-WISE SHOWN) **ACOUSTICALLY** ____ LINED DUCT SQUARE TO ROUND TRANSITION 90° ELBOW N/A

N/A

TURŃING VANES

TURŃING

TEE

LATERAL CROSS

DUCT FITTINGS

SINGLE LINE ROUND DUCT

OR

DOUBLE LINE RECTANGULAR DUCT

RADÍUS VANES

90° ELBOW

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M - 60

FOR TYPICAL AIR TERMINAL UNIT (ATU) MOUNTING DETAIL. (FOR EACH SUPPLY DIFFUSER PROVIDE A BALANCING DAMPER NEAR ATU).

FOR TYPICAL PIPE SUPPORT DETAILS. TYP. | M-504 |

17. SEE FOR TYPICAL PLATFORM FOR SUSPENDING MECHANICAL M-505 EQUIPMENT.

18. FOR EACH RETURN GRILL IN BUILDING 282, PROVIDE A BALANCING DAMPER IN DUCT.

MECHANICAL EQUIPMENT SCHEDULES

												AIR HANDLING UNIT, FACTORY FABRICATED							
SYMBOL	MINIMUM AIR FLOW CFM	TOTAL STATIC PRESSURE IN WC	EXTERNAL STATIC PRESSURE IN WC	FAN	NUMBER AND MIN SIZE OF WHEELS	MAX RPM	MIN MOTOR HP	MAX BRAKE HP	TYPE OF DRIVE	SERVICE		COIL	CHARAC	CTRICAL CTERISTRI PHASE		MAXIMUM OPERATING WT LBS	FILTER SYMBOL	MINIMUM OUTSIDE AIR CFM	REMARKS
[AHU-1]	33700	6.27	3.00	AF	1-32"	1471	50	49.00	BELT	INDOOR	N/A [CC-1]	200	3	60	N/A	PF-1/F-1	14460	VF DRIVE, INTERNALLY SEISMICALLY SPRING ISOLATION RM 1078
[AHU-2]	23100	5.47	2.75	FC	1-30.25"	834	40	37.50	BELT	INDOOR	N/A [CC-2]	200	3	60	N/A	PF-2/F-2	8800	VF DRIVE, INTERNALLY SEISMICALLY SPRING ISOLATION RM 1143
[AHU-3]	14000	5.96	3.00	AF	1-22"	2088	25	22.5	BELT	INDOOR	N/A	CC-3]	200	3	60	N/A	PF-3/F-3	4200	VF DRIVE, INTERNALLY SEISMICALLY SPRING ISOLATION RM 1251
[AHU-4]	7800	4.88	2.00	AF	1-20"	1845	10	9.00	BELT	INDOOR	[HC-4] [CC-4]	200	3	60	N/A	PF-4/F-4	7800	INTERNALLY SEISMICALLY SPRING ISOLATION RM 2235
[AHU-5]	14550	6.20	3.00	AF	1-22"	2146	25	24.5	BELT	INDOOR	N/A	CC-5]	200	3	60	N/A	PF-5/F-5	3040	VF DRIVE, INTERNALLY SEISMICALLY SPRING ISOLATION RM 1251

	AIR	FILTER, EX	KTENDED	SURFACE N	ION-SUF	PPORTED,	POCKET CONFIGURATION
SYMBOL	TOTAL FILTER BANK CFM	NOMINAL SIZE OF EACH FILTER, HEIGHT BY WIDTH BY DEPTH INCHES	MINIMUM NUMBER OF FILTERS	MINIMUM AVERAGE EFFICIENCY %, BASED ON ASHRAE STD. 52-76	MAXIMUM MID-LIFE RESISTANCE IN WC	FINAL RESISTANCE IN WC	REMARKS
[F-1]	33700	24X24X18	8	95	0.94	1.25	
		24X20X18	2	95	0.94	1.25	
		24X12X18	8	95	0.94	1.25	
[F-2]	23100	24X24X18	4	95	0.85	1.48	
	23100	24X20X18	8	95	0.85	1.48	
		20X20X18	2	95	0.85	1.48	
		20X24X18	1	95	0.85	1.48	
[F-3]	14000	24X24X18	6	95	0.92	1.25	
[F-4]	7800	24X24X18	2	95	0.88	1.25	
		24X12X18	2	95	0.88	1.25	
		24X20X18	1	95	0.88	1.25	
[F-5]	14550	24X24X18	6	95	0.95	1.25	

AIR	AIR FILTER, SECTIONAL, PLEATED PANEL, EXTENDED SURFACE													
SYMBOL	TOTAL FILTER BANK CFM	MAXIMUM FACE VELOCITY, FPM	THICKNESS INCHES	MAX INITIAL RESISTANCE IN WC	FINAL RESISTANCE IN WC	TYPE	REMARKS							
[PF-1]	33700	350	2	0.55	0.75	ANGLE	25% ASHRAE 52-76 RATE							
[PF-2]	23100	290	2	0.54	0.75	ANGLE	25% ASHRAE 52-76 RATE							
[PF-3]	14000	360	2	0.56	0.75	ANGLE	25% ASHRAE 52-76 RATE							
[PF-4]	7800	300	2	0.54	0.75	ANGLE	25% ASHRAE 52-76 RATE							
[PF-5]	14550	375	2	0.56	0.75	ANGLE	25% ASHRAE 52-76 RATE							

AU	TOMA	TIC V	/ALVE	S FOR TE	EMPERA	TURE	CONTROL SYSTEM(S)
SYMBOL	SERVICE	FLOW	MAX PD (PSIG)	ACTION	PORTING TO CONTROLLED DEVICE	TYPE	REMARKS
[CV-1]	CHILLED WATER	282.8	5	MODULATING	NORMALLY CLOSED	3-WAY	PROVIDE 50 PSIG MIN CLOSE OFF RATING, AHU-1
[CV-2]	CHILLED WATER	196.0	5	MODULATING	NORMALLY CLOSED	3-WAY	PROVIDE 50 PSIG MIN CLOSE OFF RATING, AHU-2
[CV-3]	CHILLED WATER	101.2	5	MODULATING	NORMALLY CLOSED	3-WAY	PROVIDE 50 PSIG MIN CLOSE OFF RATING, AHU-3
[CV-4A]	CHILLED WATER	86.4	5	MODULATING	NORMALLY CLOSED	3-WAY	PROVIDE 50 PSIG MIN CLOSE OFF RATING, AHU-4
[CV-4B]	HOT WATER	49.9	5	MODULATING	NORMALLY OPEN	3-WAY	PROVIDE 50 PSIG MIN CLOSE OFF RATING, AHU-4
[CV-5]	CHILLED WATER	90.5	5	MODULATING	NORMALLY CLOSED	3-WAY	PROVIDE 50 PSIG MIN CLOSE OFF RATING, AHU-5
[CV-6]	HOT WATER	54.0	2	MODULATING	NORMALLY OPEN	3-WAY	PROVIDE 50 PSIG MIN CLOSE OFF RATING, B-1
[CV-7]	HOT WATER	38.0	2	MODULATING	NORMALLY OPEN	3-WAY	PROVIDE 50 PSIG MIN CLOSE OFF RATING, B-2
[CV-8]	HOT WATER	92.0	2	MODULATING	NORMALLY OPEN	3-WAY	PROVIDE 50 PSIG MIN CLOSE OFF RATING, B-3

				ВС	ILER, HO	TAW TC	ER, GA	4S FIF	RED		
SYMBOL	MINIMUM OUTPUT CAPACITY BTUH	MINIMUM THERMAL EFFICIENCY %	WATER FLOW GPM	INLET WATER TEMP F	OUTLET WATER TEMP F	TYPE OF GAS	NOMINAL MOTOR HP	ELECTRIC VOLTAGE		HERTZ	REMARKS
[B-1]	818000	80	54.0	150	180	Natural	1/3	115	1	60	MOTOR HP REFERS TO FAN ON FORCED DRAFT UNITS. PROVIDE CONTACT TO ENERGIZE [CP-#B] WHEN BURNER FIRES. PROVIDE:
[B-2]	662000	80	38.0	150	180	Natural	1/3	115	1	60	[B-1] OFF-ON CONTROLS [B-2] OFF-ON CONTROLS
[B-3]	1271000	80	92.0	150	180	Natural	1/2	115	1	60	[B-3] 2-STAGE CONTROLS

	FAN COIL UNIT, DX COOLING																		
SUPPLY FAN COOLING COIL, DIRECT-EXPANSION MAXIMUM MAX																			
SYMBOL	CONFIGURATION	MINIMUM AIR FLOW	EXTERNAL STATIC	NOMINAL WATTS	MOTO VOLTAGE		ПЕРТ 7	MIN CAPACITY TOTAL	MIN CAPACITY SENSIBLE	ENTE AIR TEN	RING MP ° F	LEAVING AIR TEMP ° F	MAX AIR PRESSURE	MAX FACE	MAXIMUM OPERATING WT LBS	SOUND POWER	FILTERS	LOCATION	REMARKS
		CFM	IN WC	WATTS	VOLTAGE	FHASE	HENTZ	BTUH	BTUH	DB	WB	DB	DROP IN WC	VELOCITY FPM		LEVELS		ROOM	
FC-1	DUCT FREE HIGH WALL	200	0	34	115	1	60	8,480	5,410	80	67	54.5			20				NOTE: LEAVING DRY BULB TEMPERATURE ARE APPROXIMATE AND ARE LISTED
FC-2	DUCT FREE HIGH WALL	450	0	49	200	1	60	23,000	14,800	80	67	50.3			50				FOR INFORMATION ONLY PROVIDE LOW AMBIENT PACK

GENERAL NOTE:

EQUIPMENT SHALL MEET THE PEFORMANCE REQUIREMENTS LISTED IN THE EQUIPMENT SCHEDULE AT A SITE ELEVATION OF 1868 FEET ABOVE SEA LEVEL.

US Army Corps of Engineers Sacramento District

OTED Symbol

S Dwn by: Spec No.: Design file no:

A.M. | 1304 | 229-25-539

Reviewed by: Submitted by: Submitted by: Plot date: Plot d

F/A-22 ADD/ALTER WEAPONS SCHOOL

Sheet reference number:

	FANS														
SYMBOL	SYMBOL MINIMUM AIR FLOW CFM INCHES WC UNIT TYPE FAN TYPE DRIVE WHEELS(S) IN BHP FAN HP VOLTAGE PHASE HERTZ REMARKANT.														
[RF-1]	33700	2.75	CENTRIFUGAL TUBULAR	AF	BELT	1-36	37.6	40.0	200	3	60	RM 1078			
[RF-2]	23100	2.5	CENTRIFUGAL TUBULAR	AF	BELT	1-33	20.5	25.0	200	3	60	RM 1143			
[RF-3]	14000	2.00	CENTRIFUGAL TUBULAR	AF	BELT	1-24	13.9	15.0	200	3	60	RM 2235			
[RF-5]	14550	2.00	CENTRIFUGAL TUBULAR	AF	BELT	1-27	12.0	15.0	200	3	60	RM 1251			
[EF-1]	600	0.25	IN-LINE CENTRIFUGAL	BI	BELT	1-9	0.07	1/4	115	1	60	RM 1246			
[EF-2]	550	0.25	IN-LINE CENTRIFUGAL	BI	DIRECT	1-9	0.06	1/10	115	1	60	RM 1078			
[EF-3]	550	0.25	IN-LINE CENTRIFUGAL	BI	DIRECT	1-9	0.06	1/10	115	1	60	RM 1247			
[EF-4]	550	0.25	IN-LINE CENTRIFUGAL	ВІ	DIRECT	1-9	0.06	1/10	115	1	60	RM 1249			
[EF-5]	450	0.25	IN-LINE CENTRIFUGAL	BI	BELT	1-8	0.12	1/4	115	1	60	RM 2232			
[EF−6]**	110	0.125	CEILING EXHAUST	FC	DIRECT	N/A	N/A	80 WATTS	115	1	60	RM 1215			
[EF-7]	500	0.125	IN-LINE CENTRIFUGAL	ВІ	DIRECT	1-9	0.06	1/10	115	1	60	RM 1088			
[EF-8]	1800	0.125	IN-LINE CENTRIFUGAL	BI	DIRECT	1–13	0.52	3/4	115	1	60	RM 2237			
[EF-9]	200	0.125	IN-LINE CENTRIFUGAL	BI	DIRECT	1–7	0.03	1/30	115	1	60	RM 1252			
[EF-10]	300	0.25	CENTRIFUGAL ROOF	BI	DIRECT	1–8	0.05	1/20	115	1	60	RM 2205			
[EF-11]	480	0.30	N/A	N/A	DIRECT	N/A	N/A	(2) 1/25	115	1	60	RM 1217			
*	CORROSIC	 	<u> </u> .NIZED STEEL SO	 CROLL AN	 D HOUSING	3									

		DIAI	PHRA	GM EXF	PANSIC	N TANK
	SYMBOL	MINIMUM VOLUME GALLONS	NOMINAL OPERATING PRESSURE PSIG	MINIMUM ACCEPTANCE VOLUME GALLONS	MINIMUM DESIGN PRESSURE PSIG	REMARKS
	[ET-1]	33.6	18	11.3	125	
	[ET-2]	10.0	18	10.0	125	
	[ET-3]	21.7	18	11.3	125	
	[ET-4]	7.8	18	2.5	125	
	[ET-5]	106	18	53.0	125	
\dashv	[ET-6]	7.8	18	2.5	125	

		AIR SE	EPARATION TANK
SYMBOL	GPM	MAX. WATER PRESS. DROP FT WC	REMARKS
[AST-1]	54.0	3	ASME 125 PSI RATED. PROVIDE W/STRAINER
[AST-2]	282.8	3	& AUTOMATIC AIR VENT.
[AST-3]	38.0	3	NOTE: [AST-#] CORRESPONDS WITH [ET-#] SYSTEM
[AST-4]	196.0	3	
[AST-5]	92.0	3	
[AST-6]	278.0	3	

	US of Sad
AINER	
T-#] SYSTEM	

	LIQUID—CHILLING PACKAGE, AIR COOLED															
CVAADOL		MINIMUM		EVAP	ORATO	R (COO	LER)		CONDENSER		ELECTRICAL				MAX	
SYMBOL	TYPE	CAPACITY MBTUH	GPM	ETHYLENE GLYCOL %	TEMP IN F	TEMP OUT'F	MAX LIQUID PRESS DROP FT WC	FOULING FACTOR	ENTERING AIR TEMP F DB	EFFICIENCY	VOLTAGE	PHASE	HERTZ	MIN CIRCUIT AMPACITY	OPERATING WT LBS	REMARKS
[CH-1]	SEE SPEC	1648.8	282.8	15	54.0	42.0	4.7	0.0001	115	7.3 EER	200	3	60	798.0	N/A	
[CH-2]	SEE SPEC	1188.0	196.0	15	54.5	42.0	12.7	0.0001	115	7.0 EER	200	3	60	576.0	N/A	
[CH-3]	SEE SPEC	1648.8	278.0	15	54.2	42.0	4.5	0.0001	115	7.3 EER	200	3	60	798.0	N/A	

	CONDENSING UNIT, AIR—COOLED												
SYMBOL	UNIT SERVED	MINIMUM CAPACITY BTUH		EER (MIN) AT ARI CONDITIONS	NOT TO EXCEED	CTRICAL VOLTAGE	PHASE	HERTZ	REMARKS				
CU-1	FC-1	8,480	74	9.7	12.1	115	1	60	CONTROLS ALLOWS FOR OPERATION @ 30 DEGREE F AMBIENT.				
CU-2	FC-2	23,000	74	10.8	16.8	200	1	60					

	PUMP												
SYMBOL	SERVICE	MINIMUM CAPACITY GPM	TOTAL DYNAMIC HEAD FT WC	TYPE	MAXIMUM RPM	PUMP MINIMUM EFFICIENCY %	MINIMUM HP	MOTO VOLTAGE	OR PHASE	HERTZ	REMARKS		
[CP-1A]	CHILLED WATER	282.8	37.0	BASE-MOUNTED END SUCTION	1750	78	5.0	200	3	60			
[CP-1B]	HOT WATER	54.0	84.0	IN-LINE CLOSED-COUPLE	3450	47	5.0	200	3	60			
[CP-1C]	HOT WATER	10.0	10	IN-LINE CLOSED-COUPLE	1750	N/A	1/4	115	1	60	BOILER RECIRC		
[CP-2A]	CHILLED WATER	196.0	50.0	BASE-MOUNTED END SUCTION	1750	62	5.0	200	3	60			
[CP-2B]	HOT WATER	38.0	63.0	IN-LINE CLOSED-COUPLE	3450	44	2.0	200	3	60			
[CP-2C]	HOT WATER	10.0	10	IN-LINE CLOSED-COUPLE	1750	N/A	1/4	115	1	60	BOILER RECIRC		
[CP-3A]	CHILLED WATER	278.0	33.0	BASE-MOUNTED END SUCTION	1750	77	5.0	200	3	60			
[CP-3B]	HOT WATER	92.0	65.0	IN-LINE CLOSED-COUPLE	3450	59	5.0	200	3	60			
[CP-3C]	HOT WATER	10.0	10	IN-LINE CLOSED-COUPLE	1750	N/A	1/4	115	1	60	BOILER RECIRC		

			REGISTER
SYMBOL	NECK SIZE, INCHES	APPLICATION	REMARKS
[R-1]	18x18	SUPPLY	PROVIDE SUPPLY REGISTERS W/OPPOSED BLADE DAMPERS W/DBL. DEFLECTION BLADES-VERT. FRONT, HORIZ. REAR. INDIVIDUALLY ADJUSTABLE BLADES FRONT & REAR.
[R-2]	36x12	SUPPLY	EXCEPTIONS TO THE ABOVE REQUIREMENTS WILL BE ACCEPTED TO COMPLY WITH NOTE 7 ON SHEET M-601
[ER-1]	8x8	EXHAUST	PROVIDE EXHAUST REGISTERS W/OPPOSED BLADE DAMPERS W/DBL. DEFLECTION BLADES-VERT. FRONT, HORIZ. REAR. INDIVIDUALLY ADJUSTABLE BLADES FRONT & REAR.
[ER-2]	10x10	EXHAUST	EXCEPTIONS TO THE ABOVE REQUIREMENTS WILL BE ACCEPTED TO COMPLY WITH NOTE 7 ON SHEET M-601
[ER-3]	12×12	EXHAUST	
[ER-4]	14×14	EXHAUST	
[R-7]	8x8	EXHAUST	
[R-8]	8x8	EXHAUST	

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COOLING	(`()	(`⊢ ⊢)	$\backslash \backslash \backslash \backslash \Delta \mid \vdash \vdash \vdash$
COULING	OOIL,		V V /

		COOLING COIL, CHILLED WATER													
	SYMBOL CFN	MIN CAPAC TOTAL	TY MIN CAPACITY SENSIBLE	ENTERING A	AIR TEMP ° F	LEAVING AIR TEMP ° F	- GPM	ENTERING WATER	EIHYLENE	DDESC DDOD	MAX WATER			CONTROL VALVE	REMARKS
	STWB02	MBTUH	MBTUH	DRY BULB	WET BULB	DRY BULB	01 101	TEMP ° F	GLYCOL %	IN WC	FT WC	FPM	OF ROWS	SYMBOL	KEMAKKS
l	[CC-1] 3370	0 1610.0	1609.0	95.1	63.4	48.4	282.8	42	15	0.94	10.0	600	0	[CV-1]	[AHU-1]
	[CC-2] 2310	0 1116.0	1116.0	95.1	63.4	47.9	196.0	42	15	0.56	8.5	470	8	[CV-2]	[AHU-2] NOTE: LEAVING DRY BULB TEMPERATURE ARE LISTED
	$\begin{bmatrix} CC - 3 \end{bmatrix} 1400$	0 576.0	575.0	93.4	62.8	53.2	101.2	42	15	0.64	7.0	600	6	[CV-3]	[AHU-3] FOR INFORMATION ONLY.
	[CC-4] 780	492.0	491.0	115.0	68.0	53.2	86.4	42	15	0.49	3.3	500	6	[CV-4A]	[AHU-4]
	[CC-5] 1455	0 515.0	514.0	88.2	61.0	53.6	90.5	42	15	0.84	3.6	600	8	[CV-5]	[AHU-5]

	SIDE WALL LINER SLOT DIFFUSER													
SYMBOL	LENGTH FT	MIN. NO OF SLOTS	CFM	NOMINAL SLOT WIDTH INCHES	INLET INCHES	THROW (FEET	HEATING	REMARKS						
[LS-1]	4	1	SEE DRAWINGS	3	10	20' @ 25 NC @ 425f	13	THROW DATA BASE ON ISOTHERMAL AIR AT 100 FPM TERMINAL VELOCITY						

	EXHAUST RELIEF PENTHOUSES												
SYMBOL	CFM	MAX AIR PRESSURE DROP IN WC	NOMINAL THROAT SIZE LENGTH BY WIDTH INCHES	TYPE	NOTES								
[RP-1]	33,700	0.11	48 X 144	LOUVERED PENTHOUSE	PROVIDE BIRD SCREEN								

	OUTSIDE AIR INTAKE PENTHOUSES												
SYMBOL	CFM	MAX AIR PRESSURE DROP IN WC	NOMINAL THROAT SIZE LENGTH BY WIDTH INCHES	TYPE	NOTES								
[IP-1]	23,000	0.11	36 X 102	LOUVERED PENTHOUSE	PROVIDE BIRD SCREEN								
[IP-2]	7,800	0.08	28 X 86	LOUVERED PENTHOUSE	PROVIDE BIRD SCREEN								
[IP-3]	14,550	0.11	36 X 66	LOUVERED PENTHOUSE	PROVIDE BIRD SCREEN								
[IP-4]	14,000	0.11	36 X 66	LOUVERED PENTHOUSE	PROVIDE BIRD SCREEN								

GRILLE												
NECK SIZE, INCHES	APPLICATION	REMARKS										
16x16	RETURN	24 X 24 LAY—IN PANEL BOLDER 3/4" SPACING O° DEFLECTION.										
8x8	RETURN	EXCEPTIONS TO THE ABOVE REQUIREMENTS WILL BE ACCEPTED TO COMPY WITH NOTE 7 ON SHEET M-601										
20x20	RETURN											
	SIZE, INCHES 16x16 8x8	NECK SIZE, INCHES 16×16 RETURN 8×8 RETURN										

) F	-US	SER								
SYMBOL	NECK SIZE INCHES	LAY-IN PANEL BORDER	''' -		NC RATING MAX						REMARKS				
[SD-1]	6X6	24X24	SQUARE, RECTANG	/ GULAR	3	0	12345 7 8								
[SD-2]	9X9														
[SD-3]	12X12														
[SD-4]	6X9														
[SD-5]	6X12														
[SD-6]	6X15														
[SD-7]	9X12														
[SD-8]	9X15														
[SD-9]	12X15														
[SD-10]	15X18										Ų.				
[SD-11]	6X9										6				
[SD-12]	9X12	+									6				
[SD-13]	6X6	11X11	BEVELEI FACE	DROP						ļ	6	,			
1 SEE PLANS FOR CFM 2 PROVIDE SHEET METAL ADAPTER TO TRANSITION TO ROUND DUCT 3 PROVIDE OPPOSED BLADE DAMPER 3 PROVIDE OPPOSED BLADE DAMPER 5 CORE OF DIFFUSER SHALL BE REMOVEABLE FROM FROM THE FACE OF THE DIFFUSER WITH OUT AN OPPOSED BLADE DAMPER										D BLADE DAMPER AN AIR TERMINAL JPPLIES AIR TO A DIFFUSER PROVIDE R WITH OUT AN					

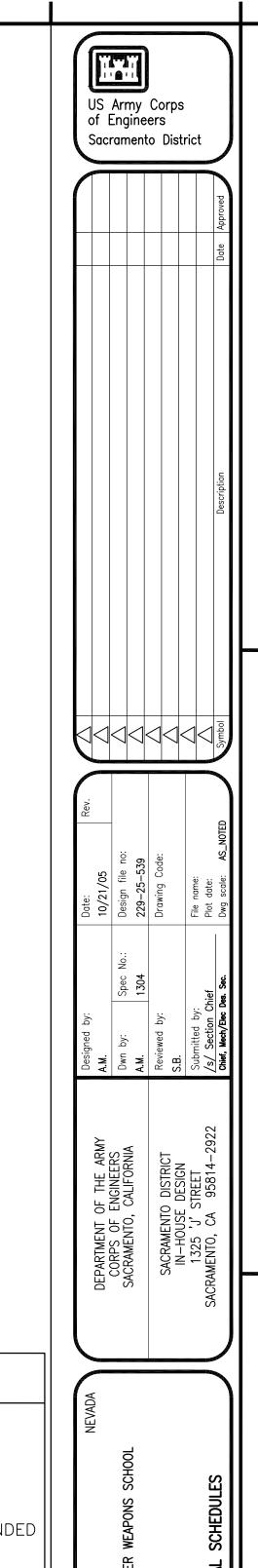
EXCEPTIONS TO THE ABOVE REQUIREMENTS WILL BE ACCEPTED TO COMPY WITH NOTE 7 ON SHEET M-601

									AIR	CONDITION	VER FOR	ELECTR(DNIC DATA	PROCE	ESSI	NG 8	& TAPE S	TORA	GE SPACES
			SUPPLY FAN					EVAPORA	TOR	REHEAT COIL, ELECTRIC	HUMIDIFIER, ELECTRIC		RELATIVE HUMIDITY		CTRICAL ACTERIS				
SYMBOL	AIR FLOW DIRECTION	MINIMUM AIR FLOW CFM	EXTERNAL STATIC PRESS IN WC		MINIMUM CAPACITY TOTAL MBTUH	CAPACITY SENSIBLE	ENTE AIR TE DRY BULB		AIR TFMP °F	MIN CAPACITY MBTUH (INCLUDES MOTOF HEAT)	I B VAPOR	TEMP SETPOINT	SETPOINT AND SENSITIVITY	VOLTAGE	PHASE	HERTZ	MIN. CIRCUIT AMPACITY (MCA)	FILTERS	REHEAT TO HAVE 1 STAGES UNIT TO BE MOUNTED ABOVE SUSPENDED
[CRAC-1] HORIZ	1260	0.3	3/4	32.5	27.1	74.0	61.7		17.05	4.5	74.0+2.0	50.0+3.0	208	3	60	23.1	SEE SPECS	CEILING

	AIR COOLED CONDENSER													
SYMBOL	UNIT SERVED	MINIMUM CAPACITY MBTUH	ENTERING DRY BULB AIR TEMP F	HERTZ	REMARKS									
[ACC-1]	[CRAC-1]	32.5	115	23.3	208	1	60	PROVIDE: 1) VARIABLE SPEED FAN CONTROL						

GENERAL NOTE:

EQUIPMENT SHALL MEET THE PERFORMANCE REQUIREMENTS LISTED IN THE EQUIPMENT SCHEDULE AT A SITE ELEVATION OF 1868 FEET ABOVE SEA LEVEL.



reference number:

<u> </u>			ı		1	1	1	1	TING COII	1	1	1			1		
BOL	CFM C	MINIMUM CAPACITY MBTUH	GPM	ENTERING WATER TEMP ° F	ENTERING AIR TEMP * F	LEAVING AIR TEMP * F	MAXIMUM AIR PRESSURE DROP IN WC	MAXIMUM WATER PRESSURE DROP FT WC	MAXIMUM FACE VELOCITY FPM	GLYCOL %	TYPE	CONTROL VALVE SYMBOL		AIR— HANDLER SERVED		REMARKS	US Arm of Engi Sacram
-4]	7800	500.0	50.0	180	27.0	90.0	0.16	2.1	550	0	2-WAY	XXX	[AHU-4]				
				Λ Ι Ι Ι Ν Ι							\ \ \ / [T OOU				
	1	イート RANGE	T	AL UN	1, 5111		OOIL, HOT WATER	ING, VARI		NLUME Internal	VV /	REHEA					
1BOL	COOLING		GFM	MINIMUM CAPACITY BTUH	GPM ENTERIN WATER	IG ENTERING AIR	MAX WATER GLYCO PRESS DROP % B FT WC WEIGH	VALVE PRESS Y DROP & NO T OF WAYS	RES	SISTANCE N WC			REMARKS				
U 40	650	325	325	13,110		53.0	5.0 0	5PSIG-2		.6	MAX	X INTERNAL	RESISTANCE	INCLUDES HEATING			
TU)41	780	390	390	14,510	1.0			5PSIG-2			WITI	H MORE TH	DROP. FOR AN ONE DIFFL	JSER,			
TU 042	2150	1075	1075	,				5PSIG-2				DVIDE A VOL J FOR EACH	LUME DAMPER RUN OUT.	AT THE			
TU)	230	115	115		0.7			5PSIG-2									
TU 045/ TU	200	100	100		0.6			5PSIG-2									
TU > 046/ TU > 047/	340 350	170	170 175		0.5			5PSIG-2 5PSIG-2									
047/ TU 048/	420	210	210		0.6			5PSIG-2 5PSIG-2									
TU 050	1140	570	570	22,360				5PSIG-2									
TU 051	450	225	225		0.6			5PSIG-2									
TU 052	450	225	225	8830	0.6			5PSIG-2									
TU 053	540	270	270	11,840	0.8			5PSIG-2									
TU 54A	600	300	300	7900	0.8			5PSIG-2									Rev.
TU 054B	1400	700	700	25,120	1.7			5PSIG-2									
TU 056	300	150	150		0.8			5PSIG-2									: 17/05 gn file n
TU \ 057 \ TU \	300	150	150		0.8			5PSIG-2 5PSIG-2									Date 10/2 Design
TU 058 TU 059	1000	500 650	500 650	20,790				5PSIG-2									oN
059/ .TU 061	1100	550	550	21,920				5PSIG-2									
TU \ 062	200	100	100		0.6			5PSIG-2									signed by
TU 063	300	150	150		0.8			5PSIG-2									Desi
TU 069	500	250	250	9360	0.6			5PSIG-2									
TU 070	550	275	275	11,970	0.8			5PSIG-2									ARMY ERS ORNIA
TU 171A	500	250	250	14,190	1.0			5PSIG-2									OF THE ENGINE
TU 071B	750	375	375		0.6			5PSIG-2									IMENT PS OF
TU \ 072/ TU \	240	120	120		0.7			5PSIG-2									DEPAR' COR
TU 073 TU 074	380	120	120 190		0.7			5PSIG-2 5PSIG-2									
174/ TU 175/	945	470	470	20,090				5PSIG-2									
175/ TU 176/	1800	900	900	30,320				5PSIG-2									/ADA
TU 080/	500	250	250		0.6			5PSIG-2									 NE/
TU 083	1000	500	500	20,790	1.4			5PSIG-2									
TU 084	600	300	300	12,550	0.8			5PSIG-2									
TU 086	300	150	150	7,800	0.8			5PSIG-2									
TU D87	250	125	125	7,060	0.7			5PSIG-2									
TU 089	800	400	400	14,710				5PSIG-2									
TU 090 TU	440	220	220		0.6			5PSIG-2								GENERAL NOTE:	IS AFB
TU 091 TU	370	185	185		0.5			5PSIG-2									NELL
TU 092 TU 94A	550 2000	275 1000	275 1000	11,970				5PSIG-2					↓			EQUIPMENT SHALL MEET THE PEFORMANCE REQUIREMENTS LISTED IN THE EQUIPMENT SCHEDULE AT A SITE	re
94A/ TU)94B/	350	175	175		0.5			5PSIG-2 5PSIG-2		1						ELEVATION OF 1868 FEET ABOVE SEA LEVEL.	rei nu M —

, F	CFM R	ANGE		<u> </u>		- CNITCONIA	HEATING	J COIL,	1101 1		\/AL\/E_DDECC	MAX INTERNAL	
	COOLING	HEATING	CFM	MINIMUM CAPACITY BTUH	GPM	ENTERING WATER TEMP F	AIR TEMP 'F	PRESS FT	DROP WC	GLYCOL % BY WEIGHT	VALVE PRESS DROP & NO OF WAYS	RESISTANCE IN WC	REMARKS
027	500	250	250	9360	0.6	180	53.0	5	.0	0	5PSIG-2	0.6	MAX INTERNAL RESISTANCE INCLUDES HEATING COIL PRESSURE DROP. FOR ATU'S
TU 02B	1500	750	750	27,440	1.8						5PSIG-2		WITH MORE THAN ONE DIFFUSER,
10/	300	150	150	7800	0.8						5PSIG-2		PROVIDE A VOLUME DAMPER AT THE ATU FOR EACH RUN OUT.
///	300	150	150	7800	0.8						5PSIG-2		
/10/	375	190	190	8040	0.5						5PSIG-2		
713/	375	190	190	8040	0.5						5PSIG-2		
120/	200	100	100	6250	0.6						5PSIG-2		
/21/	500	250	250	9360	0.6						5PSIG-2		
TU)22	1200	600	600	23,020	1.5						5PSIG-2		
125/	300	150	150	7800	0.8						5PSIG-2		
120/	300	150	150	7800	0.8						5PSIG-2		
021/	300	150	150	7800	0.8						5PSIG-2		
TU)28	300	150	150	6750	0.7						5PSIG-2		
	840	420	420	15,120	1.0						5PSIG-2		
TU)30	1170	580	580	22,580	1.5						5PSIG-2		
TU)31	800	400	400	14,710	1.0						5PSIG-2		
TU)32	1800	900	900	30,320	2.0						5PSIG-2		
TU)33	1600	800	800	28,420	1.9						5PSIG-2		
TU)34	300	150	150	7800	0.8						5PSIG-2		
Ŧij.	300	150	150	7800	0.8						5PSIG-2		
TU 37A	720	360	360	13,870	0.9						5PSIG-2		
TU 37B	960	480	480	20,320	1.4						5PSIG-2		
TU 038/	340	170	170	7570	0.5						5PSIG-2		
─	270	135	135	7360	0.7						5PSIG-2		
TU)95	370	185	185	7930	0.5						5PSIG-2		
TU)96	370	185	185	7930	0.5						5PSIG-2		
TU)99/	400	200	200	8270	0.6						5PSIG-2		
$\overline{}$	400	200	200	8270	0.6						5PSIG-2		
01/	400	200	200	8270	0.6						5PSIG-2		
TU 02	400	200	200	8270	0.6						5PSIG-2		
	400	200	200	8270	0.6						5PSIG-2		
TU 04	400	200	200	8270	0.6						5PSIG-2		
TU 05	1100	550	550	21,920	1.5						5PSIG-2		
TU 06 A	750	375	375	14,190	1.0						5PSIG-2		
TU 06B	750	375	375	14,190	1.0						5PSIG-2		
=	600	300	300	12,550	0.8						5PSIG-2		
$\overline{}$	800	400	400	14,710	1.0						5PSIG-2		•
TU 40B	400	200	200	8,270	0.6						5PSIG-2		

US Army Corps of Engineers Sacramento District

GENERAL NOTE:

ATU 1202B ATU 1203 ATU 1203 ATU 1204 ATU 1208 ATU 1211 ATU 1211	CFM R COOLING 825 825 710 1150 200	HEATING 410 410 355	CFM 410	MINIMUM CAPACITY BTUH	GPM	ENTERING WATER TEMP 'F	HEATING ENTERING AIR TEMP F	MAX WA	TER		VALVE PRESS	X INTERNAL ESISTANCE	REMARKS
ATU 1204 ATU 1204 ATU 1204 ATU 1208 ATU 1211 ATU 1211	825 710 1150	410				I IFMP F	TEMP *F	l'`FT W	C	GLYCOL % BY WEIGHT	VALVE PRESS DROP & NO OF WAYS	 IN WC	
ATU 1203/ ATU 1204/ ATU 1208/ ATU 1211/ ATU 1211/	710 1150		440	10,000	1.0	180	53.0	5.0		0	5PSIG-2	0.6	MAX INTERNAL RESISTANCE INCLUDES HEATING
ATU 1203/ ATU 1204/ ATU 1208/ ATU 1211/ ATU 1211/	1150	355	410	18,880	1.0						5PSIG-2		COIL PRESSURE DROP. FOR ATU'S WITH MORE THAN ONE DIFFUSER,
ATU 1208/ ATU 1211/ ATU 1212A/			355	13,770	0.9						5PSIG-2		PROVIDE A VOLUME DAMPER AT THE ATU FOR EACH RUN OUT.
ATU 1211 ATU 1212A	200	575	575	22,470	1.5	•	•	ļ			5PSIG-2	•	
(ATU) (212A)		100	^	~~~ N(ON SHU	JT-OFF B	30X ~	~~					
\ <u>ATU</u> \\ <u>212A</u>	600	300	300	12,550	0.8	180	53.0	5.0)	0	5PSIG-2	0.6	
	600	300	300	12,550	0.8						5PSIG-2		
1(2128/	600	300	300	12,550	0.8						5PSIG-2		
ATU 1212C	200	100	100	6250	0.6						5PSIG-2		
ATU 1213	550	275	275	11,970	0.8						5PSIG-3		
ATU 1217	400	200	200	8270	0.6						5PSIG-2		
ATU 1218	450	225	225	8830	0.6						5PSIG-2		
ATU 1219	300	150	150	7800	0.8						5PSIG-2		
ATU 1220	450	225	225	8830	0.6						5PSIG-2		
ATU 1221	320	160	160	8080	0.8						5PSIG-2		
(ATU) 1222	200	100	100	6250	0.6						5PSIG-2		
(ATU) 1223A	550	275	275	11,970	0.8						5PSIG-2		
ATU 1223B	550	275	275	11,970	0.8						5PSIG-2		
ATU 1224	300	150	150	7800	0.8						5PSIG-2		
ATU 1226	300	150	150	7800	0.8						5PSIG-2		
ATU 1227	300	150	150	7800	0.8						5PSIG-2		
ATU 1229	400	200	200	8270	0.6						5PSIG-2		
ATU 1230A	700	350	350	13,660	0.9						5PSIG-2		
ATU 1230B	700	350	350	13,660	0.9						5PSIG-2		
ATU 1232	550	275	275	11,970	0.8						5PSIG-2		
ATU 1233	300	150	150	7800	0.8						5PSIG-2		
ATU 1234	300	150	150	7800	0.8						5PSIG-3		
/ A TILL	650	325	325	13,110	0.9						5PSIG-2		
ATU 1237	450	225	225	8830	0.6						5PSIG-2		
/ A TI I	200	100	100	6250	0.6		•	 			5PSIG-2	•	
													T

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GENERAL NOTE:

	•		MINA	L UN	IJΤ,	SING				NG, VAR			W/REHEAT COIL
SYMBOL	CFM R	ANGE HEATING	CFM	MINIMUM CAPACITY BTUH	GPM	ENTERING WATER TEMP °F	HEATING ENTERING AIR	COIL, HOT MAX WATER PRESS DROFT WC	WATER GLYCOL MEIGHT	VALVE PRESS DROP & NO OF WAYS	RESI	INTERNAL STANCE N WC	REMARKS
ATU 2202	940	470	470	20,090	1.3	180	53.0	5.0	WEIGHT 0	5PSIG-2	0.		MAX INTERNAL RESISTANCE INCLUDES HEATING
ATU 2209	900	450	450	15,720	1.1					5PSIG-2			COIL PRESSURE DROP. FOR ATU'S WITH MORE THAN ONE DIFFUSER,
ATU 2209 ATU 2210	450	225	225	8830	0.6					5PSIG-2			PROVIDE A VOLUME DAMPER AT THE ATU FOR EACH RUN OUT.
ATU 2211	550	275	275	11,970	0.8					5PSIG-2			
ATU 2211 ATU 2214	500	250	250	9360	0.6					5PSIG-2			
ATU 2215 ATU 2216	1250	625	625	23,550	1.6					5PSIG-2			
ATU 2216	250	125	125	7060	0.7					5PSIG-2			
ATU 2218	400	200	200	8590	0.6					5PSIG-2			
ATU 2219	300	150	150	8100	0.8					5PSIG-2			
ATU 2222	750	375	375	14,190	1.0					5PSIG-2			
ATU 2223	400	200	200	8270	0.6					5PSIG-2			
ATU 2224	800	400	400	14,710	1.0					5PSIG-2			
ATU 2225	400	200	N/A							>	NON SHUT-OF	F BOX	
ATU 2227 ATU 2229	600	300	300	12,550	0.8					5PSIG-2	0.	6	
ATU 2229	550	275	275	11,970	0.8					5PSIG-2			
ATU 2236	400	200	200	8270	0.6					5PSIG-2			
ATU 2238	700	350	350	13,660	0.9					5PSIG-2			
ATU 2240A	750	375	375	14,190	1.0					5PSIG-2			
ATU 2240B	750	375	375	14,190	1.0					5PSIG-2			
ATU 2241	300	150	150	7800	0.8					5PSIG-2			
ATU 2242A	750	375	375	14,190	1.0					5PSIG-2			
ATU 2242B	750	375	375	14,190	1.0					5PSIG-2			
ATU 2244	250	125	125	7060	0.7					5PSIG-2			
ATU 2245	250	125	125	7060	0.7	+	,	+	1	5PSIG-2	,	!	
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GENERAL NOTE:

	Alf	R TERI	MINA	AL UN	\sqcap	SING	LE C	OUCT C	OOLIN	IG, VAR	IABLE VO	LUME	W/REHEAT COIL
SYMBOL		RANGE	0 =: :	MINIMUM		ENTERING	HEATING ENTERING	G COIL, HOT V		VALVE PRESS		INTERNAL ISTANCE	REMARKS
	COOLING	HEATING	CFM	MINIMUM CAPACITY BTUH	GPM	WATER TEMP 'F	AIR TEMP °F	MAX WATER PRESS DROP FT WC	GLYCOL % BY WEIGHT	VALVE PRESS DROP & NO OF WAYS		V WC	TALIWITATA
ATU 1115	400	200	200	8270	0.6	180	53.0	5.0	0	5PSIG-2	0.	.6	MAX INTERNAL RESISTANCE INCLUDES HEATING COIL PRESSURE DROP. FOR ATU'S
ATU 1116A	400	200	200	8270	0.6					5PSIG-2			WITH MORE THAN ONE DIFFUSER,
ATU 1116B	600	300	300	12,550	0.8					5PSIG-2			PROVIDE A VOLUME DAMPER AT THE ATU FOR EACH RUN OUT.
ATU 1117	170	85	85	5710	0.6					5PSIG-2			
ATU 1119	140	70	70	5130	0.5					5PSIG-2			
ATU 1121	840	420	420	15,120	1.0					5PSIG-2			
ATU 1122	200	100	100	6250	0.6					5PSIG-2			
(ATU) 1123	200	100	100	6250	0.6					5PSIG-2			
ATU 1124	200	100	100	6250	0.6					5PSIG-2			
ATU 1125	1430	715	715	26,730	1.8					5PSIG-2			
ATU 1126	500	250	250	9360	0.6					5PSIG-2			
ATU 1128	280	140	140	7510	0.8					5PSIG-2			
ATU 1129	350	175	175	7690	0.5					5PSIG-2			
ATU 1130	470	235	235	9040	0.6					5PSIG-2			
ATU 1131	350	175	175	7690	0.5					5PSIG-2			
ATU 1132	390	195	195	8160	0.5					5PSIG-2			
ATU 1133	300	150	150	7800	0.8					5PSIG-2			
ATU 1134	450	225	225	8830	0.6					5PSIG-2			
ATU 1135	290	145	145	7660	0.8					5PSIG-2			
ATU 1136	1050	525	525	21,360	1.4					5PSIG-2			
ATU 1139	1380	675	675	24,610	1.6					5PSIG-2			
ATU 1141	1100	550	550	21,920	1.5	+	•	+	 	5PSIG-2		1	
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US Army Corps of Engineers Sacramento District

GENERAL NOTE: